PHINMS 2.8.02 Release Notes

Public Health Information Network Messaging System (PHINMS)

Version: 1.0

Prepared by:
U.S. Department of Health & Human Services

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REVISION HISTORY

Version #	Implementer	Date	Explanation
1.0	Kumar Nakkerthi	10-24-12	Create 2.8.02 Release Notes
1.1	Tavan Jones	10-24-12	Edited 2.8.02 Release Notes
1.2	Ahamed Jemal	10-25-12	Edited 2.8.02 Release Notes
1.3	Dawn Fama	10-25-12	Edited 2.8.02 Release Notes

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ACRONYMS

AJP	Apache JServ Protocol
CA	Certificate Authority
CDC	Centers for Disease Control and Prevention
CPA	Collaboration Protocol Agreement
DN	Distinguished Name
DSN	Data Source Name
GA	General Availability
GUI	Graphical User Interface
HSQL	HyperXtreme Structured Query Language
HSQLDB	HyperXtreme Structured Query Language Database
HTTP	Hyper Text Transfer Protocol
JBDC	Java Database Connectivity
JDK	Java Development Kit
JVM	Java Virtual Memory
LDAP	Lightweight Directory Access Protocol
ODBC	Open Database Connectivity
PHINMS	Public Health Information Network Messaging System
SP1	Service Pack 1
SQL	Structured Query Language
SMTP	Simple Mail Transport Protocol
SSL	Secure Socket Layer
TransportQ	Transport Queue
URL	Uniform Resource Locator
WAR	Web Archive
XML	Extensible Markup Language

1 INTRODUCTION

1.1 Objective

The Centers for Disease Control and Prevention (CDC) Public Health Information Network Messaging System (PHINMS) Release Notes communicates the changes and enhancements in PHINMS version 2.8.02 software for the Windows environments. It also documents known problems and workarounds. This document is for users, developers, and IT support staff.

Note: Navigate to www.cdc.gov/phin/phinms when this manual references the PHINMS website.

1.2 Scope

This document describes new features and bug fixes implemented with PHINMS release 2.8.02 and supported upgrade path.

1.3 References

Name	Location
Quick How Tos	Located at www.cdc.gov/phin/phinms.
PHINMS Implementation Guide version 2.8.02	Steps to install, upgrade, and configure PHINMS 2.8.02 Located at: http://www.cdc.gov/phin/tools/PHINms/quick-steps.html#18

1.4 Communiqués

The PHINMS Team responds to user's communiqués. Send questions, suggestions, and/or comments concerning PHINMS support or documentation to the PHINMS website using the Contact PHINMS email link located at the top of the home page.

2   RELEASE INFORMATION

PHINMS 2.8.02 is a maintenance release that includes several defects fixes and significant enhancements. The **release** supports clean installations and upgrades form 2.8.00 to 2.8.01 SP1 HF3. PHINMS 2.8.02 includes enhancement to LDAP lookup feature, support for installation on new Windows operating systems, bug fixes, and Tomcat software updates.

2.1   Compatible Products

This product has been tested on the following platforms with the following requirements:

- Operating systems:
  - Windows 2003, 2008 Server (Standard and Enterprise) 32 and 64 bit
  - Windows XP Pro SP3
  - Windows Vista and 7
- Certified Databases:
  - Default Databases - used for testing purposes:
    - HSQL DB 1.8.0.4
  - Production Qualify Databases:
    - Microsoft SQL Server 2005 and 2008
    - Oracle 11g Release 1
- Application Servers:
  - Tomcat 6.0.35
- Receiver Side Proxy Servers:
  - IIS 7.0 with Jakarta Tomcat Connector
- JDBC drivers

DB Type	DB Version	JDBC Driver Name	Type	Version	Date Published
MS SQL	2005	sqljdbc.jar	4	1.2.2828	10/11/2007
MS SQL	2008	Sqljdbc4.jar	4	2.0.1803	3/25/2009
Oracle	11g Rel 1	ojdbc6.jar	4	11.1.0.7.0	08/28/2008

Note: PHINMS has tested certain JDBC drivers to connect to the supported databases and found no issues based on the tests performed. PHINMS does not guarantee nor support these JDBC driver versions. It is the responsibility of the PHINMS customer to decide which JDBC driver to use. The table above is provided for reference purposes only.

2.2   Resource Requirements

- Local administrator for Windows
- Minimum Disk space: 512 MB
- Minimum Memory: 1024 MB

2.3   New Installs

The Installation wizard guides the user through the base installation of the PHINMS Sender and/or Receiver. It is the responsibility of the administrator to configure routes and database connections after completing the installation. The following major components are installed with the wizard:

- Tomcat 6.0.35server,
- JDK 1.6.0 Update 3 (1.6.0_03-b05), --- user must install JDK prior to installing PHINMS
- PHINMS 2.8.02 Receiver and Sender web applications
- PHINMS 2.8.02 default configuration files and directory structure
- PHINMS Remote administration console (If chosen during the installation) and
- Default database: Windows: HSQLDB 1.8.0.4 engine.

When PHINMS software is installed, Tomcat 6.0.35 will be installed in the Windows services panel with the display name of "PHINMS Tomcat Instance" and HSQLDB with "PHINMS Database Engine Service".

When installed as a Windows service, the default startup type is configured as "Automatic".

The alternative way to start PHINMS instance is as follows:

- *<Install-dir>\Phinms\bin\ startHSQLDB.bat* to start the PHINMS default database (HSQLDB) for Sender or Receiver.

When the Tomcat server is running, the console can be run by doing any of the following:

- Select "PHINMS Console" from "Program Menu" or
- Double clicking <installation directory>\bin\phinmsConsole.exe file.
- The PHINMS console is protected by a username and password by default. Contact PHINMS Help Desk by email phintech@cdc.gov or calling 1-800-532-9929 option 2 for the default console username and password and then change the default password.

2.4   Upgrades

2.5   Upgrade from Prior Versions of PHINMS

PHINMS 2.8.02 supports upgrading from 2.8.00 or later. End users have to provide previous installation path during upgrade and have to provide a new path for installing the newer version. Upgrade from versions prior to PHINMS 2.8.00 is not supported. End users have to do a new install to take advantage of the fixes and enhancements in PHINMS 2.8.02

2.6 Re-Installing PHINMS

PHINMS does not support reinstalling PHINMS to the same install directory. The administrator must choose new install and a new install path from the wizard.

3   PHINMS 2.8.02 CHANGES

The new features included in PHINMS 2.8.02 are listed in this section. More details on many of these features will be documented in the PHINMS 2.8.02 Implementation Guide.

3.1   Optimize VeriSign LDAP Functionality

When LDAP was enabled on previous versions of PHINMS, the application performed a lookup to VeriSign LDAP Services for the data encryption public key and would append the encryption for each message. This constant VeriSign LDAP lookup would periodically fail if the VeriSign LDAP sever is not reachable. The LDAP service outage would prevent messages from sending until the outage recovered.

To minmiaze the VeriSign LDAP dependency, the LDAP lookup feature is re-architected in this relese. In his 2.8.02 verision, the PHINMS application has been enhanced to perform a single lookup and then cache the certificate and the expiration date. To maintain secure computing practices, PHINMS performs daily lookups to VeriSign's CRL (Cert Revocation List) Servers to ensure the cached certificate has not been revoked. The use of the VeriSign CRL Services provides the industry standard security measures for certificate usage.

3.2   Fix RNR Hub Servlet Error

In earlier versions of PHINMS the RNR servlet was getting loaded improperly because it was looking at the wrong location and was encountering an HTTP 404 error. This fix ensures that the servlet file looks at the correct location.

3.3   Update Field Descriptions

The PHINMS Console Application has a feature that displays a description of the highlighted configuration option. These descriptions were updated to be more helpful and informative to the end user. This should reduce end user's confusion during the installation and configuration of PHINMS.

3.4   Update Bundled Tomcat Server

The PHINMS Application sits on top of a Java Web Server engine called Tomcat. This release of PHINMS was updated to Tomcat version 6.0.35. This ensures that customers are receiving the latest security updates released by Tomcat.

3.5   Update Bundled Java Virtual Machine

The PHINMS Application (as with all Java applications) requires a Java Runtime Environment (JRE) in order to execute on Windows and Linux This release of PHINMS was updated to JRE version 1.6.0_31. This ensures that customers are receiving the latest security updates released by Oracle.

4   PHINMS KNOWN ISSUES

The following are either known bugs with the product and not yet addressed or limitations of the product which will be taken into consideration.

4.1   PHINMS 2.8.02 Limitations

- While selecting database type for TransportQ and WorkerQ, one of the drop-down list options indicates "Access." The MS Access database is not supported in PHINMS 2.8. Please choose the other database types from the list. This option will be removed in a future release.

- In the scenario where a Receiver-side service/action pair is configured to store "payload to disk," sometimes encrypted data is stored directly into the <INSTALL-DIR>\shared\ folder instead of <INSTALL-DIR>\shared\receiverincoming folder.

- When uninstalling the PHINMS software, after the progress bar says "Finished", click the QUIT button to exit the process.

- When the auto delete functionality is first turned on to delete older data; PHINMS waits until the start of the next cycle before any actual deletion occurs. This is not a real-time deletion capability.

- When a PHINMS Sender is installed for the first time, the Sender's log file indicates that the preconfigured Sender's keyfile cert.pfx doesn't exist. This error can be ignored.

- When the sent and received messages are deleted from inside the Console, the deletion is not immediately reflected in the Console until the refresh button is clicked.

- PHINMS Console Tray Icon will not close when the Tomcat service is stopped.

- Remote Admin console using a browser is limited to updating service/action pairs.

- The ebXML Digital Signature ("signed acknowledge") feature does not work in this release.

- Some of the PHINMS 2.8.01 SP1 console fields have validations. Validations for all fields will be in a future release.

- Chunking (sending payloads larger than approx. 10 MB) only works with direct send and does not work with Route not Read. If an end user needs to use chunking and needs to send/poll RnR messages, then two instances of a PHINMS Sender will be required: one instance for direct-send with chunking turn on, and the other PHINMS Sender to for RnR messages with chunking turned off.

- The Receiver logs encrypted messages in the **\install directory\logs\receiver** directory whereas it generates log files for unencrypted messages into the **\install directory\logs** directory. This is a known anomaly and will be fixed in a future release.

Note: If the PHINMS 2.7.00 SP1 installation folder is deleted before obtaining the old messages from MS Access, it will not be possible to recover the folder.

4.2 Additional Information and Recommendations

- The upgrade install wizard provides the option to keep or delete folder and files from previous installations. It is recommended to backup installation folder of previous version before upgrading to maintain certificates and data if any.

- The receiver does not append the timestamp in the file name for the zero payload messages.

- When chunked messages are received, some chunks may have a zero size payload. This is no need for concern, as the Receiver assembles all chunked messages after it receives the last chunked message.

- Default JDBC parameters are set for MS SQL Server to be SQL Server 2005/2008.

- When the Console is hidden using the Hide feature, login information will need to be provided when the console is reopened.

- Default Routes for CDC Staging and Production have been updated to the new URLs.

- As with prior releases, PHINMS 2.8.02 does not have MS SQL Server, Oracle, and MySQL JDBC drivers (JDBC jar files) bundled with the release. End users using any of those databases as a transport queue or worker queue need to download those drivers from the related vendor and import them using PHINMS Console.

- Before starting the process of upgrading from a prior PHINMS release, you must first stop any running PHINMS application before it is upgraded. If existing PHINMS software is running as a Windows Service, end users should stop the service; otherwise stop the PHINMS software from the command window if it running in command line mode.

Contact the PHINMS Support Team when a bug or limitation is found. Navigate to www.cdc.gov/phin/phinms and click on the Contact PHINMS email link or contact the CDC PHIN Helpdesk at PHINtech@cdc.gov.

5 FILES LIST

This release consists of the following files shown in the table below.

Filename	Description
PHINMS-2.8.02-install.exe	Installation file on Windows XP/Vista/7/ 2003/2008 64 bit OS's Requires 64 bit version of Java installed